

RESEARCH, DEVELOPMENT & TECHNOLOGY TRANSFER QUARTERLY PROGRESS REPORT

Wisconsin Department of Transportation
DT1241 02/2011

INSTRUCTIONS:

Research project investigators and/or project managers should complete a quarterly progress report (QPR) for each calendar quarter during which the projects are active.

WisDOT research program category: <input type="checkbox"/> Policy research <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Wisconsin Highway Research Program <input type="checkbox"/> Pooled fund TPF#	Report period year: 2013 <input type="checkbox"/> Quarter 1 (Jan 1 – Mar 31) <input checked="" type="checkbox"/> Quarter 2 (Apr 1 – Jun 30) <input type="checkbox"/> Quarter 3 (Jul 1 – Sep 30) <input type="checkbox"/> Quarter 4 (Oct 1 – Dec 31)
Project title: Aesthetic Coatings for Concrete Bridge Components			
Project investigator: Dr. Al Ghorbanpoor		Phone: 414-229-4962	E-mail: algh@uwm.edu
Administrative contact: Nikki Hatch		Phone:	E-mail:
WisDOT contact: Travis McDaniel		Phone: 608-266-5097	E-mail: travis.mcdaniel@dot.state.wi.us
WisDOT project ID: 0092-13-05	Other project ID:	Project start date: 8/22/2012	
Original end date: 11/21/2014	Current end date: 11/21/2014	Number of extensions: 0	

Project schedule status:

☒ On schedule ☐ On revised schedule ☐ Ahead of schedule ☐ Behind schedule

Project budget status:

Total Project Budget	Expenditures Current Quarter	Total Expenditures	% Funds Expended	% Work Completed
\$120,000.00	\$8,000.00	\$31,000.00	26%	30%

Project description:

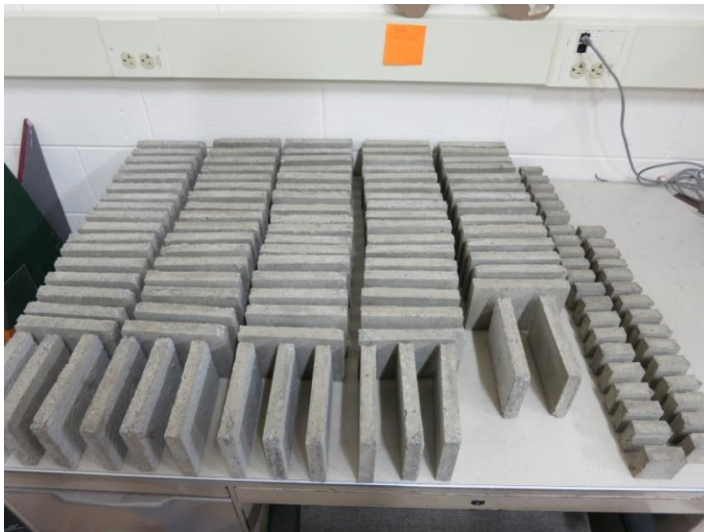
The objectives of this study are to investigate methods and products that may be used in the aesthetic and protective coating of bridge concrete components and to develop a guideline for cost-effective bridge coating practices for concrete members. A series of concrete coating systems will be identified and tested in the laboratory to evaluate their performance under simulated environmental conditions that are similar to those experienced by bridge components in Wisconsin. Wisconsin bridge sites, where coating failures and problems have occurred, have been visited to identify and evaluate the structural details and other factors that have contributed to such coating failures. Upon completion of the testing and evaluation program, guidelines and specifications language will be developed for selection, application, and maintenance of such coating materials.

Progress this quarter (includes meetings, work plan status, contract status, significant progress, etc.):

The research staff poured all concrete samples required for laboratory testing.



The formwork was removed following a seven day moist curing period, and the concrete samples were allowed to cure for an additional 21 days. During this period the properties of each concrete mix (large and small samples) were evaluated.



A sack rub finish was provided to the concrete samples, where required, in preparation for the application of the coating systems.

Anticipated work next quarter:

During the next quarter, the research staff will apply the selected coating systems and after allowing the coatings to cure for a period of 14 days, laboratory testing will begin.

Circumstances affecting project or budget:

Difficulty obtaining coating sample from Sherwin Williams because production was ceased during winter months.

Attach / insert Gantt chart and other project documentation

Quarters/Tasks	1	2	3	4	5	6	7	8	9
1. Literature Review	<div></div>								
2. Survey	<div></div>								
3. Interim Report	<div></div>								
4. Laboratory Testing				<div></div>					
5. Future Research						<div></div>			
6. Project Deliverables								<div></div>	

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Staff receiving QPR:	Date received:
Staff approving QPR:	Date approved: